

# RFC 2544 Ethernet Test Report

Configuration Name	test
Customer	test
Technician	---
Location	DWDM RU
Comments	50 km
Date	14/02/2023
Time Start	16:48:51
Time End	18:21:58
RFC 2544 Mode	Symmetric
Test Instrument Name	T-BERD/MTS8000
Serial Number	LFED0012440302
Software Revision	BERT 16.3

# Overall Test Result: PASS

## Throughput Test Results: PASS

Throughput Threshold: 100000.0 Mbps		
Frame Length (Bytes)	Measured L1 Rate (Mbps)	PASS/FAIL
64	99996.0	PASS
10000	99996.0	PASS
1024	99996.0	PASS
1518	99996.0	PASS

## Latency (RTD) Test Results: PASS

Latency (RTD) Threshold: 1000 us		
Frame Length (Bytes)	Latency (RTD), Avg (us)	PASS/FAIL
64	536	PASS
1024	536	PASS
1518	536	PASS
10000	536	PASS

## Packet Jitter Test Results: PASS

Packet Jitter Threshold: 0 us		
Frame Length (Bytes)	Packet Jitter, Avg (us)	PASS/FAIL
64	0	PASS
1024	0	PASS
1518	0	PASS
10000	0	PASS

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## Test Set Setup

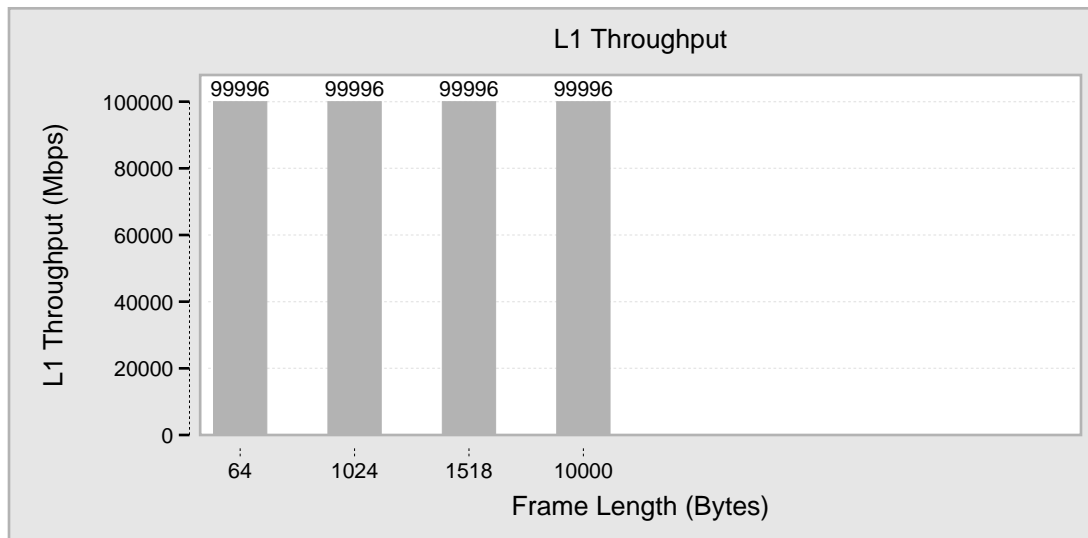
Termination	100GigE Layer 2 Traffic Term
Flow Control	Off
Framing	DIX
Encapsulation	None
Source Address	00:80:16:8A:72:31
Destination Address	00:80:16:00:00:00

## Test Configuration

Tests to Run	Throughput Latency (RTD) Packet Jitter Frame Loss Rate Back to Back
Maximum Test Bandwidth	100000 Mbps
Frame Lengths	64, 1024, 1518, 10000
Bandwidth Measurement Accuracy	To within 1000.0 (Mbps)
Throughput Zeroing-in Process	RFC 2544 Standard
Throughput Frame Loss Tolerance	0%
Throughput Trial Duration	60 seconds
Throughput Pass Threshold	100000.0 Mbps
Number of Latency (RTD) Trials	5 trials
Latency (RTD) Trial Duration	120 seconds
Latency (RTD) Load	100%
Latency (RTD) Pass Threshold	1000 us
Number of Packet Jitter Trials	1 trials
Packet Jitter Trial Duration	120 seconds
Packet Jitter Pass Threshold	0 us
Frame Loss Test Procedure	RFC 2544
Frame Loss Trial Duration	60 seconds
Frame Loss Bandwidth Granularity	10000 Mbps
Number of Back to Back Trials	50 trials
Back to Back Frame Granularity	1 frames
Back to Back Max Trial Time	2 seconds
Back to Back Pause Frame Policy	Detect Pause Frames

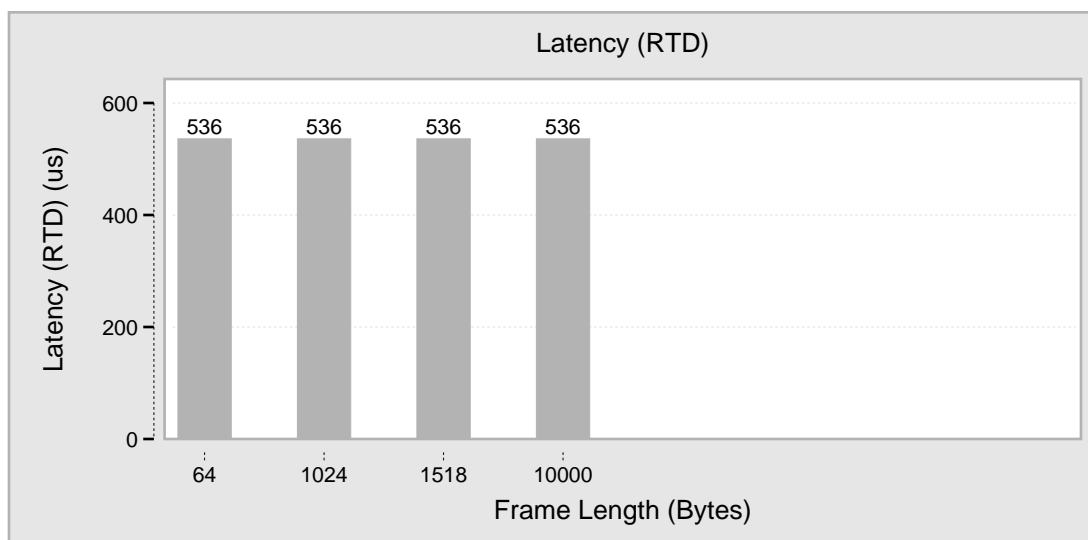
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## Throughput Test Results:



Frame Length (Bytes)	Cfg Rate (Mbps)	Measured Rate (Mbps)	Measured L1 (% of Line Rate)	Measured Rate (frms/sec)	Pause Detected
64	100000	L1 99996.0 L2 76187.4 L3 54759.7 L4 30951.1	99.996	148803566	No
1024	100000	L1 99996.0 L2 98080.4 L3 96356.3 L4 94440.7	99.996	11972701	No
1518	100000	L1 99996.0 L2 98695.7 L3 97525.4 L4 96225.0	99.996	8127113	No
10000	100000	L1 99996.0 L2 99796.4 L3 99616.8 L4 99417.2	99.996	1247456	No

**Latency (RTD) Test Results:**

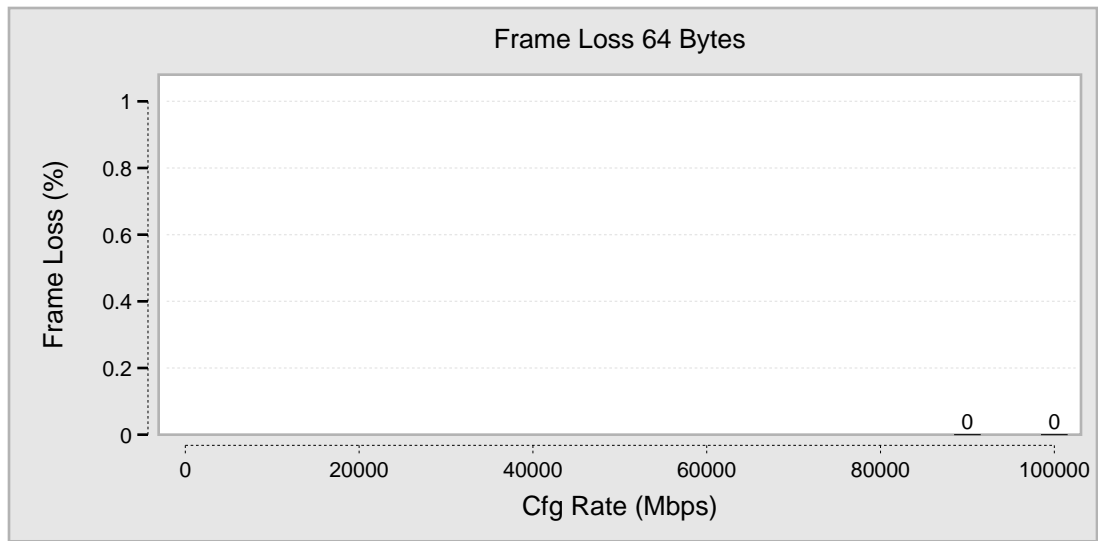


Frame Length (Bytes)	Latency (us)	Measured L1 Rate (Mbps)	Measured L1 (% of Line Rate)	Measured Rate (frms/sec)	Pause Detected
64	536	99996.0	99.996	148803567	No
1024	536	99996.0	99.996	11972701	No
1518	536	99996.0	99.996	8127113	No
10000	536	99996.1	99.996	1247456	No

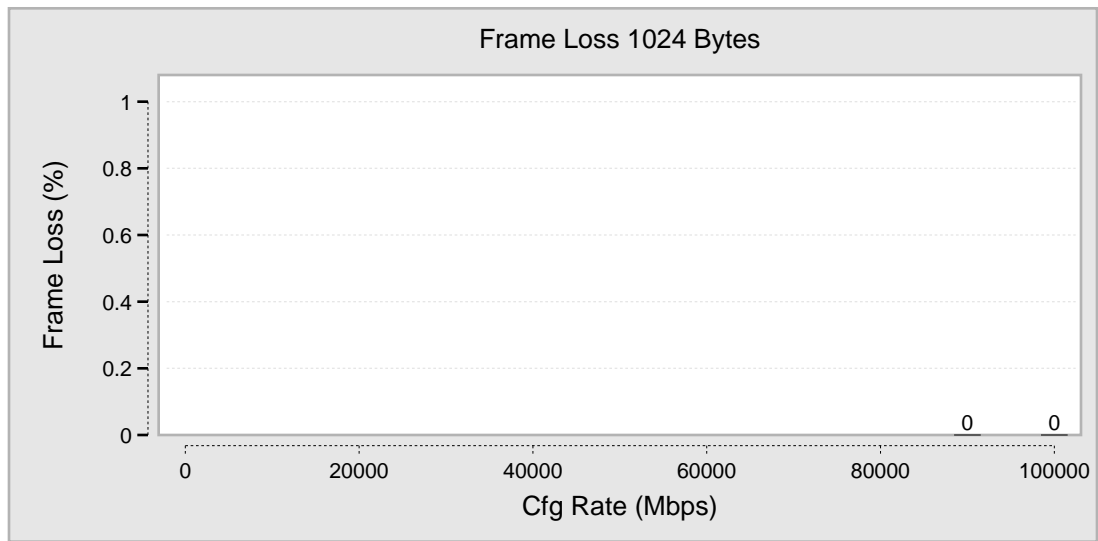
**Avg and Max Avg Pkt jitter Test Results:**

Frame Length (Bytes)	Pkt Jitter (us)	Measured L1 Rate (Mbps)	Measured L1 (% of Line Rate)	Measured Rate (frms/sec)	Pause Detected
64	Avg	99996.0	99.996	148803566	No
	0				
1024	Avg	99996.0	99.996	11972701	No
	0				
1518	Avg	99996.0	99.996	8127113	No
	0				
10000	Avg	99996.0	99.996	1247456	No
	0				

**Frame Loss Test Results:**

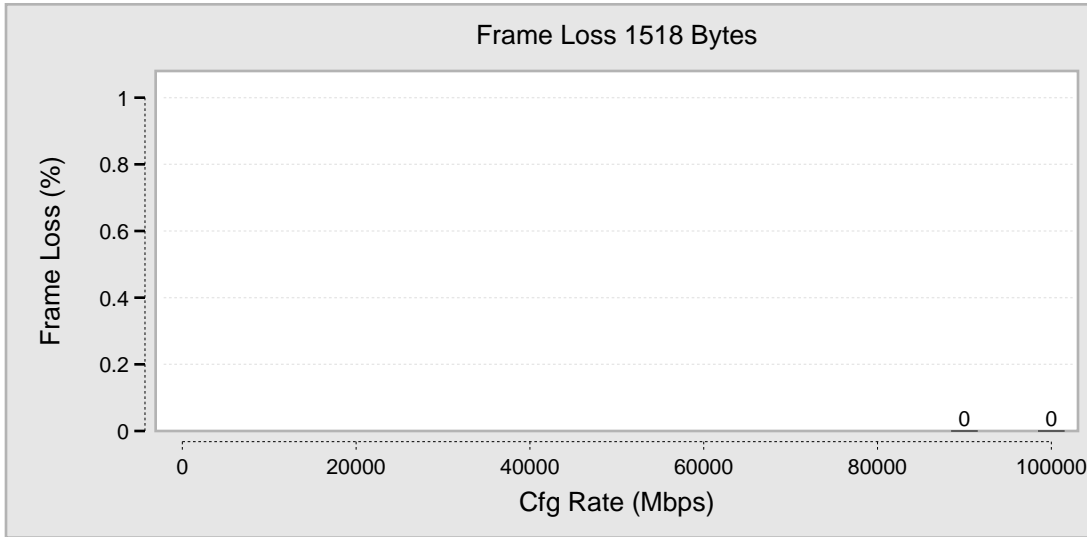


Cfg Rate (Mbps)	Throughput Rate (Mbps)	Frame Loss Rate (%)	Frames Lost	OoS Detected	Pause Detected
100000.0	99996.0	0.00	0	No	No
90000.0	90000.0	0.00	0	No	No

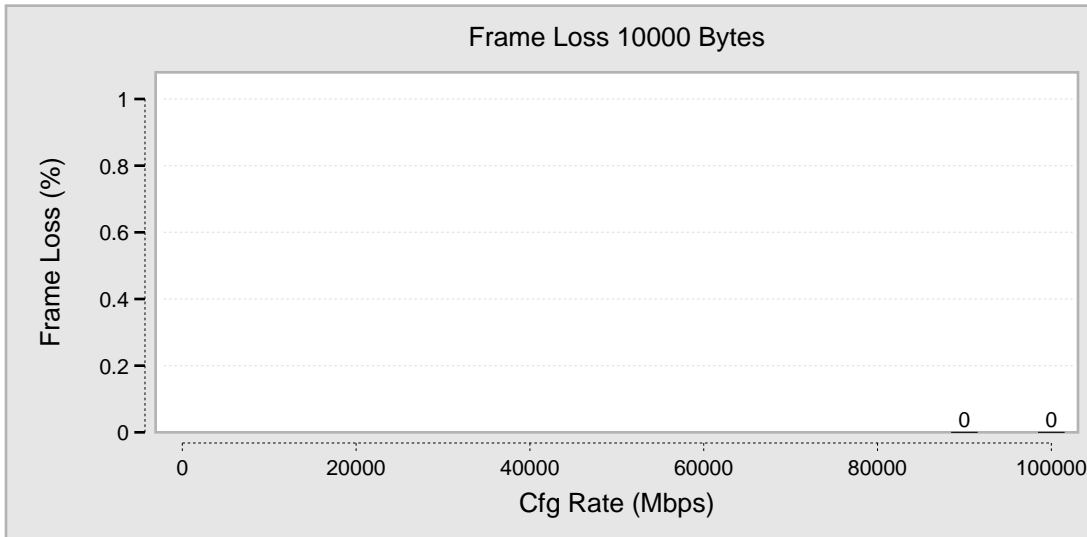


Cfg Rate (Mbps)	Throughput Rate (Mbps)	Frame Loss Rate (%)	Frames Lost	OoS Detected	Pause Detected
100000.0	99996.0	0.00	0	No	No
90000.0	90000.0	0.00	0	No	No

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Cfg Rate (Mbps)	Throughput Rate (Mbps)	Frame Loss Rate (%)	Frames Lost	OoS Detected	Pause Detected
100000.0	99996.0	0.00	0	No	No
90000.0	90000.0	0.00	0	No	No



Cfg Rate (Mbps)	Throughput Rate (Mbps)	Frame Loss Rate (%)	Frames Lost	OoS Detected	Pause Detected
100000.0	99996.1	0.00	0	No	No
90000.0	90000.0	0.00	0	No	No

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## Back to Back Test Results:

Frame Length (Bytes)	Average Burst (frms)	Average Burst (secs)	Pause Detected
64	297619048	2.000	No
1024	23946360	2.000	No
1518	16254876	2.000	No
10000	2495010	2.000	No